



PRE-RINSE SPRAY VALVE RESOURCE SHEET

The function of a pre-rinse spray valve (PRSV) is to clean leftover food and grease off dinnerware before washing them in the dishwasher. Generally, PRSVs consume more water than dishwashers (warewashers) in the commercial kitchen.

- New efficient valves on the market apply water at a higher water velocity with an effective spray pattern that saves 30 to 70 percent of the rinse water.
- Water conservation measure decreases three major utility costs: water, sewer and gas or electricity (water heating).
- Average water savings per valve of 156 gallons per day.

The cost savings for using a low-flow valve are tabulated below, based on current utility costs in the city of Boulder and typical water savings at a restaurant. On average a restaurant in Boulder can save \$467 by installing an efficient PRSV with gas water heating in a 363-day annual work period.

Annual Savings	Water Savings	Wastewater Savings	Gas Savings	Total Utility Savings
Resource Savings/Day	156 Gallons	156 Gallons	0.92 Therms	
Cost Savings/Year	\$99	\$154	\$214	\$467






Conventional PRSV



Efficient PRSV

Performance is always a concern as a product can reduce utility costs at an expense of increasing labor costs and process time. The Food Service Technology Center (FSTC) in California tested many PRSVs and concluded that efficient valves with the knife-like spray pattern performed as well as or better than conventional models. Three manufacturers currently market efficient spray valves that have been tested by FSTC (in table below), and pricing is around \$60. The PACE program in the city of Boulder will provide and install the Niagara Conservation N2180 spray valve at your restaurant or food service shop **for free**. For more information, please contact Amin Delagah at Boulder County Public Health (303) 441-1183.

	Efficient PRSV	Performance Criteria	Suppliers & Cost
	Fisher Manufacturing Ultra-Spray 2949	Flow Rate: 1.20 GPM Cleanability: 21 sec/plate	www.instawares.com \$78 www.meshersupply.com \$68 www.tundraspecialties.com \$60 (local)
	T & S Brass B-0107-C	Flow Rate: 1.24 GPM Cleanability: 21 sec/plate	www.lancasterrestaurantsupply.com \$63 www.restaurantequipment.net \$69 www.tsbrass.com \$95
	Niagara Conservation N2180	Flow Rate: 1.28 GPM Cleanability: 17 sec/plate	www.niagaraconservation.com \$60 (currently is the manufacturer and only supplier of this spray valve)